

GROUP 52A

INTERIOR

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WARNINGS REGARDING SERVICING OF SUPPLEMENTAL RESTRAINT SYSTEM (SRS) EQUIPPED VEHICLES

WARNING

- *Improper service or maintenance of any component of the SRS, or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag) or to the driver and passenger (from rendering the SRS inoperative).*
- *Service or maintenance of any SRS component or SRS-related component must be performed only at an authorized MITSUBISHI dealer.*
- *MITSUBISHI dealer personnel must thoroughly review this manual, and especially its GROUP 52B - Supplemental Restraint System (SRS) before beginning any service or maintenance of any component of the SRS or any SRS-related component.*

NOTE

The SRS includes the following components: SRS air bag control unit, SRS warning light, front impact sensors, driver's and passenger's (front) air bag modules, knee air bag module, side-airbag module, curtain air bag module, side impact sensors, seat belt pre-tensioners, clock spring, and interconnecting wiring. Other SRS-related components (that may have to be removed/installed in connection with SRS service or maintenance) are indicated in the table of contents by an asterisk (*).

GENERAL DESCRIPTION

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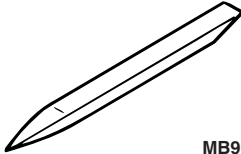
OPERATION

SEAT BELT WARNING SYSTEM

If the driver turns the ignition switch to the "ON" position without fastening the seat belt, the seat belt warning light illuminates.

SPECIAL TOOL

M1521000600576

Tool	Tool number and name	Supersession	Application
 MB990784	MB990784 Ornament remover	General service tool	Removal of switch, trim, etc.

INSTRUMENT PANEL ASSEMBLY

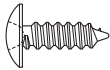
REMOVAL AND INSTALLATION

M1521001701591

⚠ WARNING

For removal and installation of the passenger's side air bag module, always observe the service procedures described in GROUP 52B, Air Bag Module and Clock Spring P.52B-367.

The following bolts and screws are used for installing the instrument panel. Bolts and screws are indicated as marks shown in the illustration in the sections of "Removal and Installation" and "Disassembly and Assembly."

Name	Symbol	Size (D × L) mm	Color	Shape
Tapping screw	a	5 × 12	—	 AC104450
	b	5 × 16	—	
	c	5 × 12	—	 AC104436
Bolt with washer	d	5 × 20	—	 AC104417
	e	6 × 16	—	 AC104429

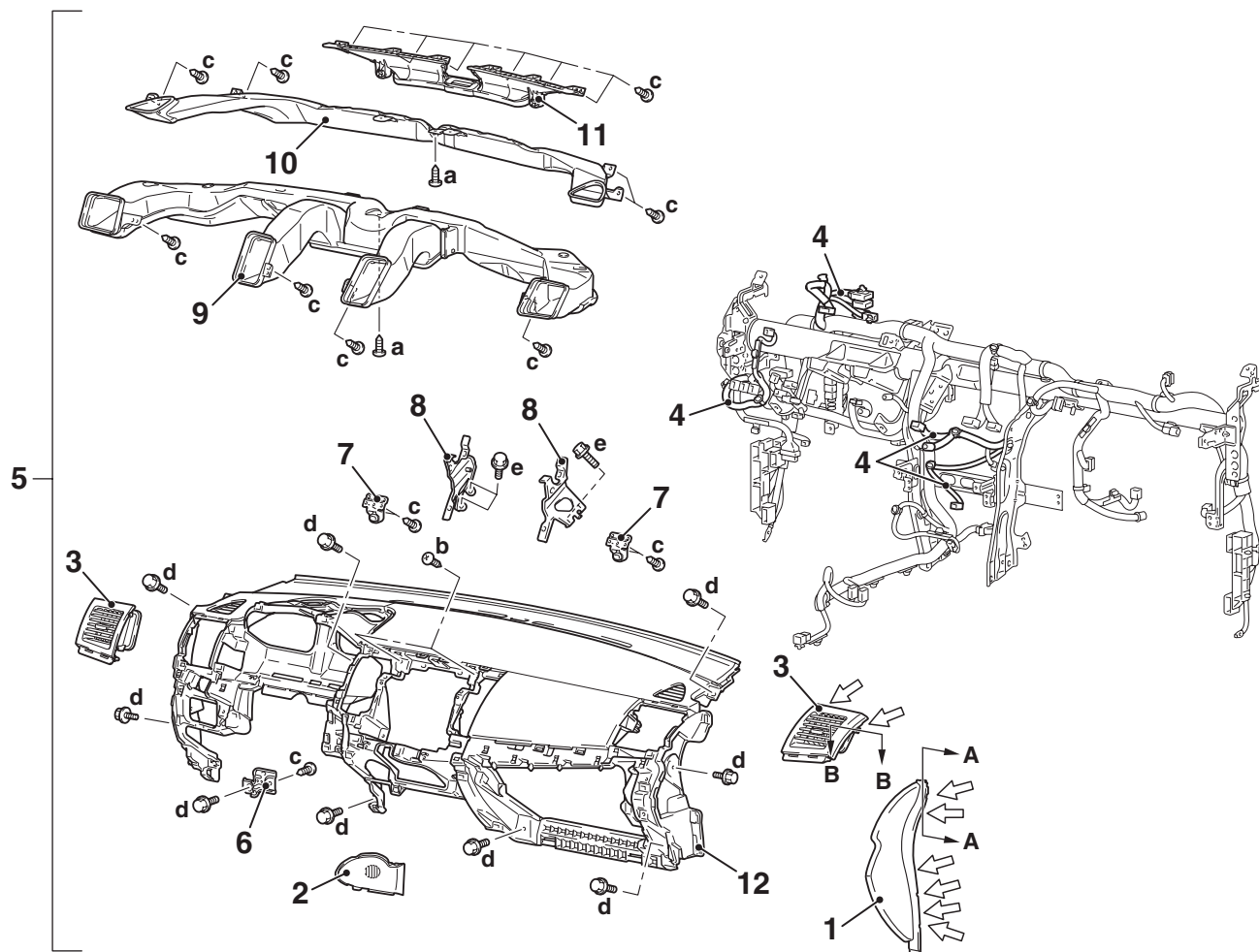
D: Thread diameter, L: Effective thread length

 CAUTION

- Refer to GROUP 52B-SRS Service Precautions [P.52B-24](#) and Air bag Module and Clock Spring [P.52B-367](#) before removing the passenger side air bag module.
- Do not subject the SRS-ECU to any shocks when removing or installing the instrument panel.

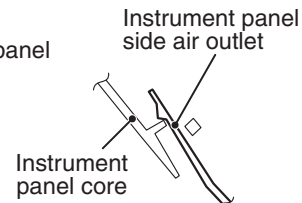
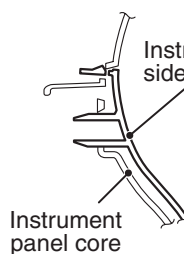
Pre-removal and Post-installation Operation

- Removal and Installation of Front Pillar Trim (Refer to [P.52A-10](#)).
- Removal and Installation of Instrument Under Cover (Refer to [P.52A-10](#)).
- Removal and Installation of Glove Box (Refer to [P.52A-10](#)).
- Removal and Installation of Instrument Cover Lower, Air Outlet Garnish (Refer to [P.52A-10](#)).
- Removal and Installation of Audio Unit (Refer to GROUP 54A, Radio with CD Player [P.54A-307](#)).
- Removal and Installation of Audio Visual Navigation Unit, GPS antenna (Refer to GROUP 54A, MMCS [P.54A-391](#)).
- Removal and Installation of Steering shaft (Refer to GROUP 37, Steering Column Shaft [P.37-25](#)).
- Removal and Installation of Hands-free Cellular Phone System (Refer to GROUP 54A, Hands-free Module [P.54A-435](#)).
- Removal and Installation of Sensors (Refer to GROUP 55B, Interior Temperature Sensor [P.55B-25](#)).



Section A – A

Section B – B



Note

: Claw positions

Removal steps

1. Instrument panel side cover
- Combination meter (Refer to GROUP 54A, Combination Meter [P.54A-90](#)).
2. Instrument panel console side cover
3. Instrument panel side air outlet
4. Instrument panel harness clamp
5. Instrument panel assembly
- Photo sensor (Refer to GROUP 55B, Sensors [P.55B-25](#)).

Removal steps (Continued)

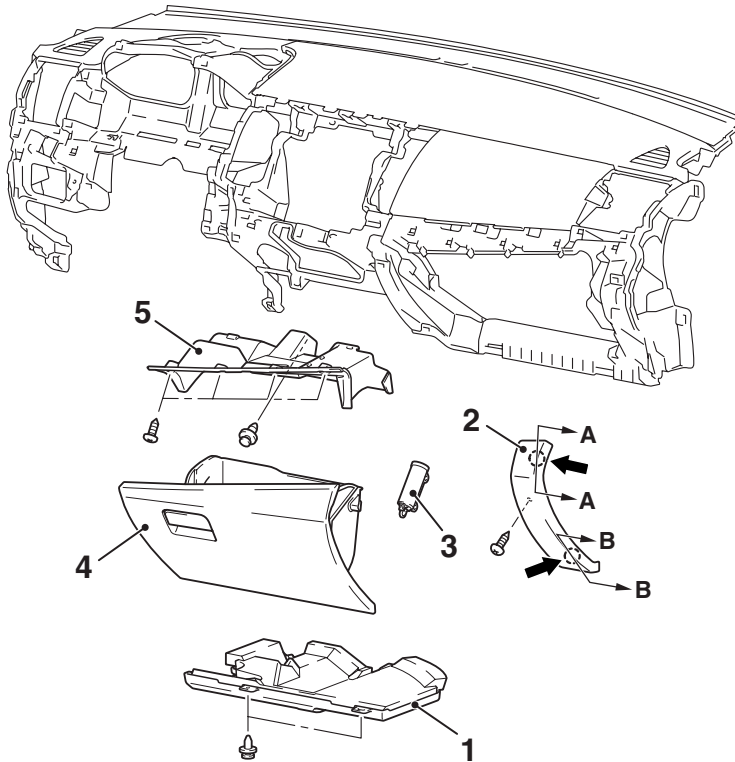
- Passenger's (front) air bag module (Refer to GROUP 52B, Air Bag Module(s) and Clock Spring [P.52B-367](#)).
- 6. Instrument panel side bracket lower
- 7. Instrument panel holder
- 8. Instrument panel reinforcement center
- 9. Ventilator air distribution duct
- 10. Side defroster duct
- 11. Defroster nozzle
- 12. Instrument panel

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GLOVE BOX

REMOVAL AND INSTALLATION

M1521011500034



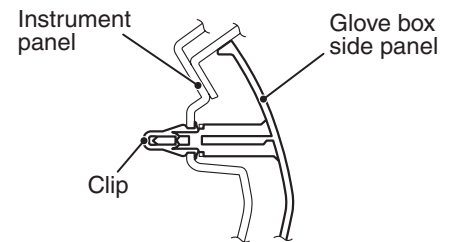
Note

← : Clip positions

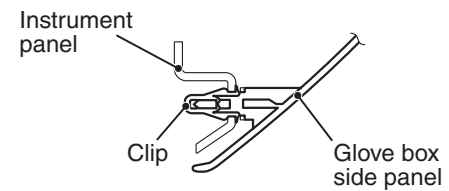
Removal steps

1. Bottom cover (passenger side)
2. Glove box side panel
3. Glove box damper <Vehicles with glove box damper>

Section A – A



Section B – B



AC610054AB

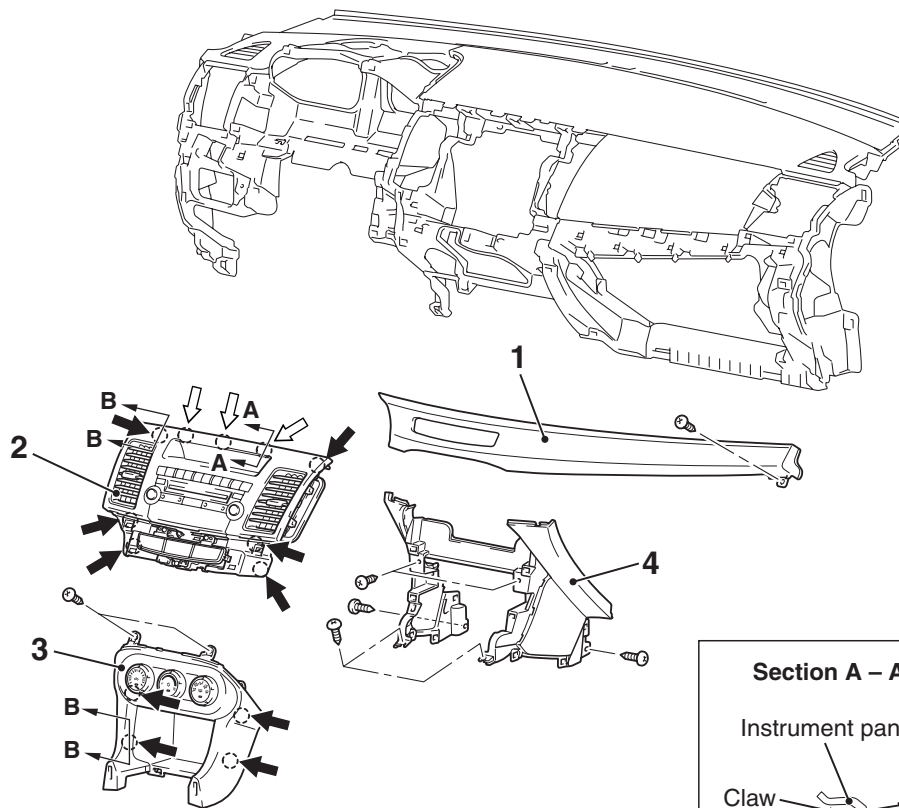
Removal steps (Continued)

4. Glove box
5. Glove box cover

INSTRUMENT CENTER PANEL

REMOVAL AND INSTLLATION

M1521011300030

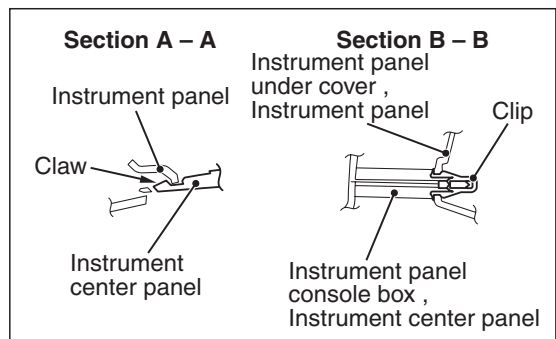


Note

- ◀ : Clip positions
 ⇐ : Claw positions

Removal steps

- Glove box side panel (Refer to P.52A-5).
- 1. Instrument panel air outlet garnish lower (RH)
- 2. Instrument center panel



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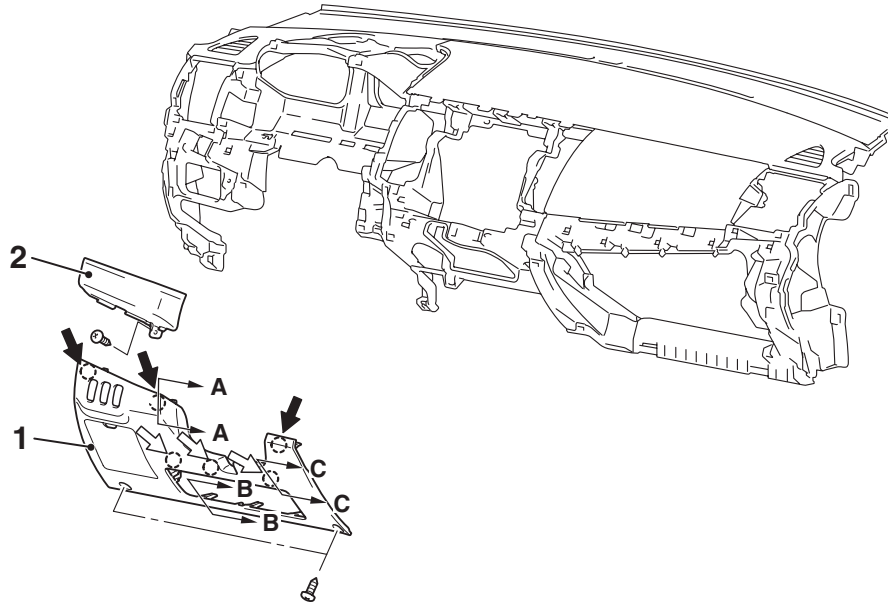
Removal steps (Continued)

- Floor console assembly (Refer to P.52A-8).
- 3. Instrument console box
- Floor console side cover (Refer to P.52A-8).
- 4. Instrument under cover

INSTRUMENT LOWER PANEL

REMOVAL AND INSTALLATION

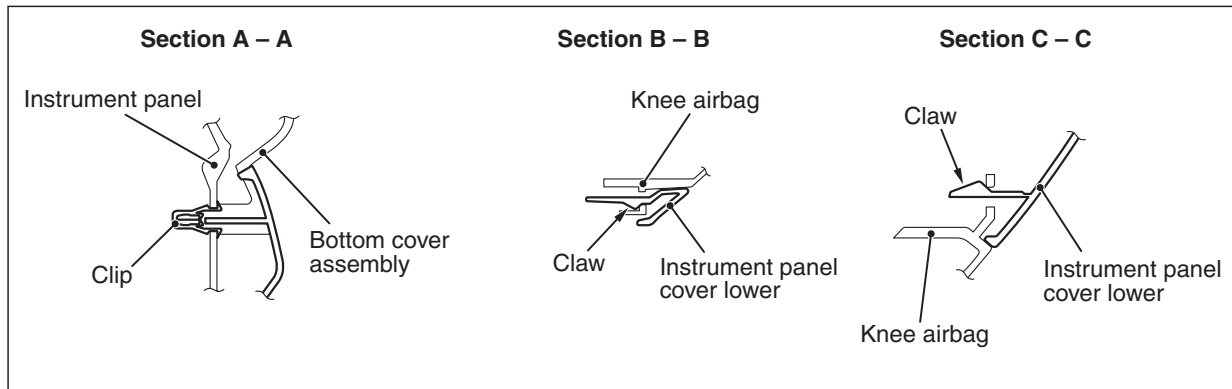
M1521011700038



Note

➡ : Clip positions

⇨ : Claw positions



AC610152AB

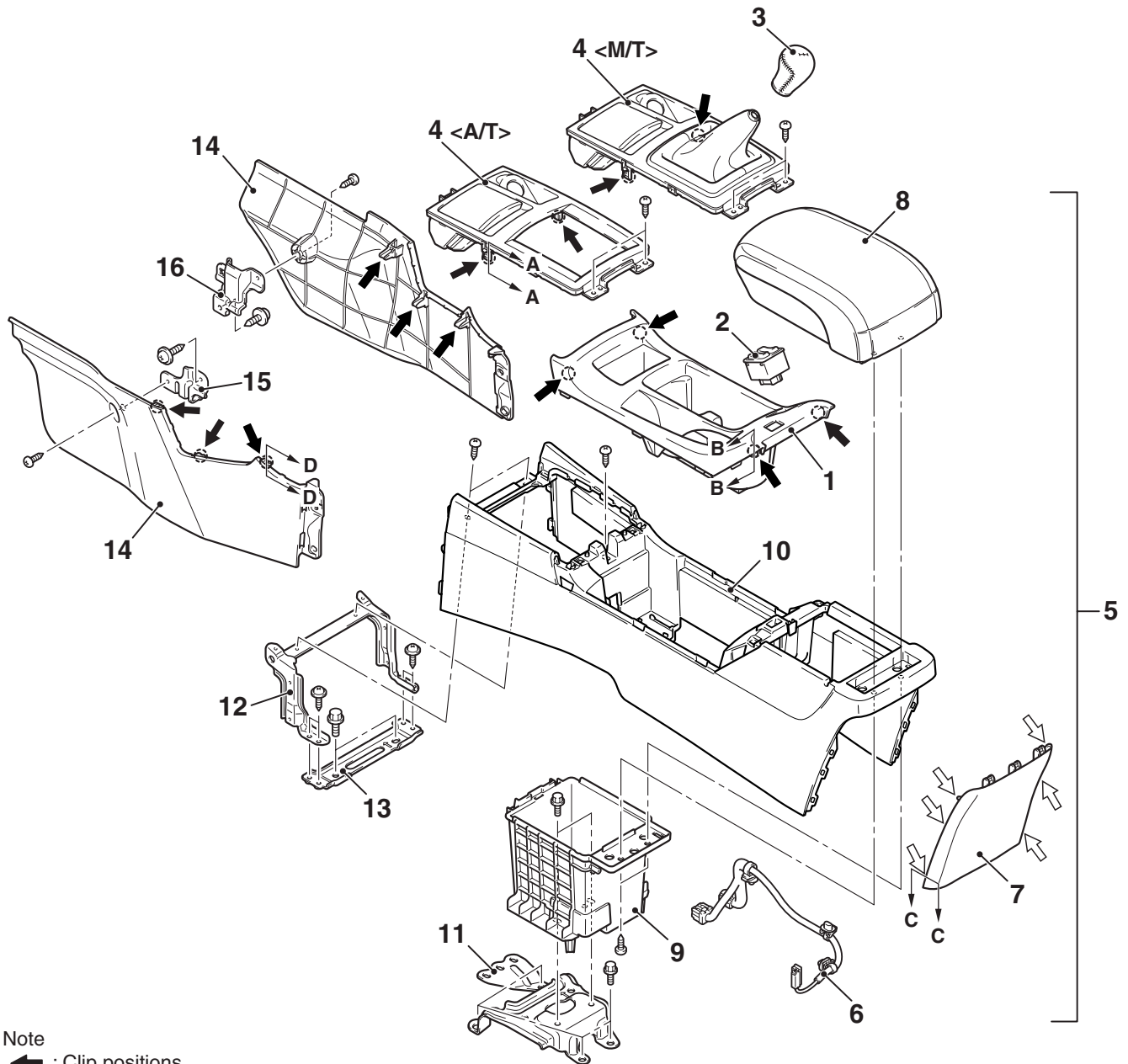
Removal steps

1. Instrument panel cover lower
2. Instrument panel air outlet garnish lower (LH)

FLOOR CONSOLE ASSEMBLY

REMOVAL AND INSTALLATION

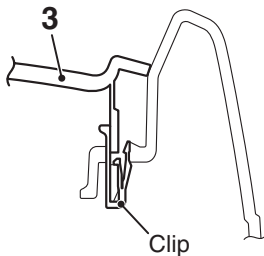
M1521005200368



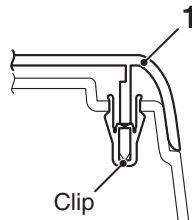
Note

← : Clip positions
 ⇄ : Claw positions

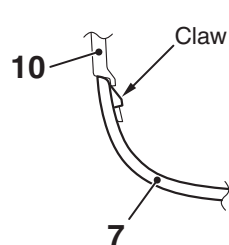
Section A – A



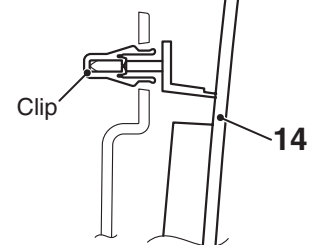
Section B – B



Section C – C



Section D – D



AC608810AB

Removal steps

1. Floor console assembly
2. Heated seat switch
3. Shift knob
4. Floor console panel assembly
5. Floor console assembly
6. Floor console harness
7. Floor console cover
8. Floor console box

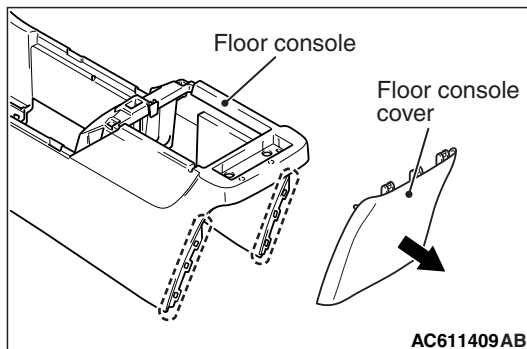
Removal steps (Continued)

- >>A<<
9. Floor console lid
 10. Floor console
 11. Floor console bracket rear
 12. Floor console bracket (A)
 13. Floor console bracket (B)
 14. Floor console side cover
 15. Floor console front bracket (LH)
 16. Floor console front bracket (RH)

REASSEMBLY SERVICE POINT

>>A<< FLOOR CONSOLE REASSEMBLY

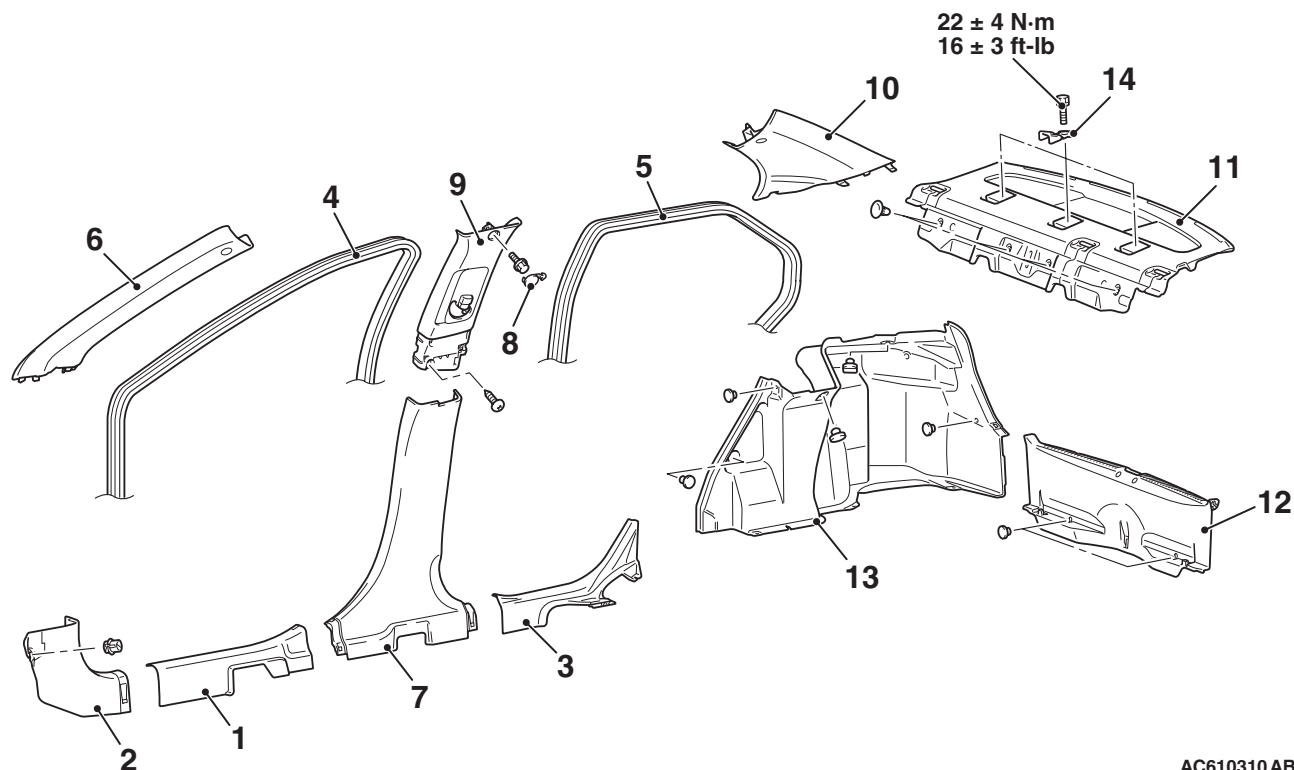
Floor console rear ends (shown in the dotted lines) may damage when removing the floor console cover. You can neglect this damage and floor console is reusable.



TRIMS

REMOVAL AND INSTALLATION

M1521001101049



AC610310 AB

Removal steps

1. Front scuff plate
2. Cowl side trim
- Rear seat cushion (Refer to [P.52A-23](#)).
3. Rear scuff plate
4. Front door opening trim
5. Rear door opening trim
6. Front pillar trim
7. Lower center pillar trim
8. Upper center pillar trim cap

Removal steps (Continued)

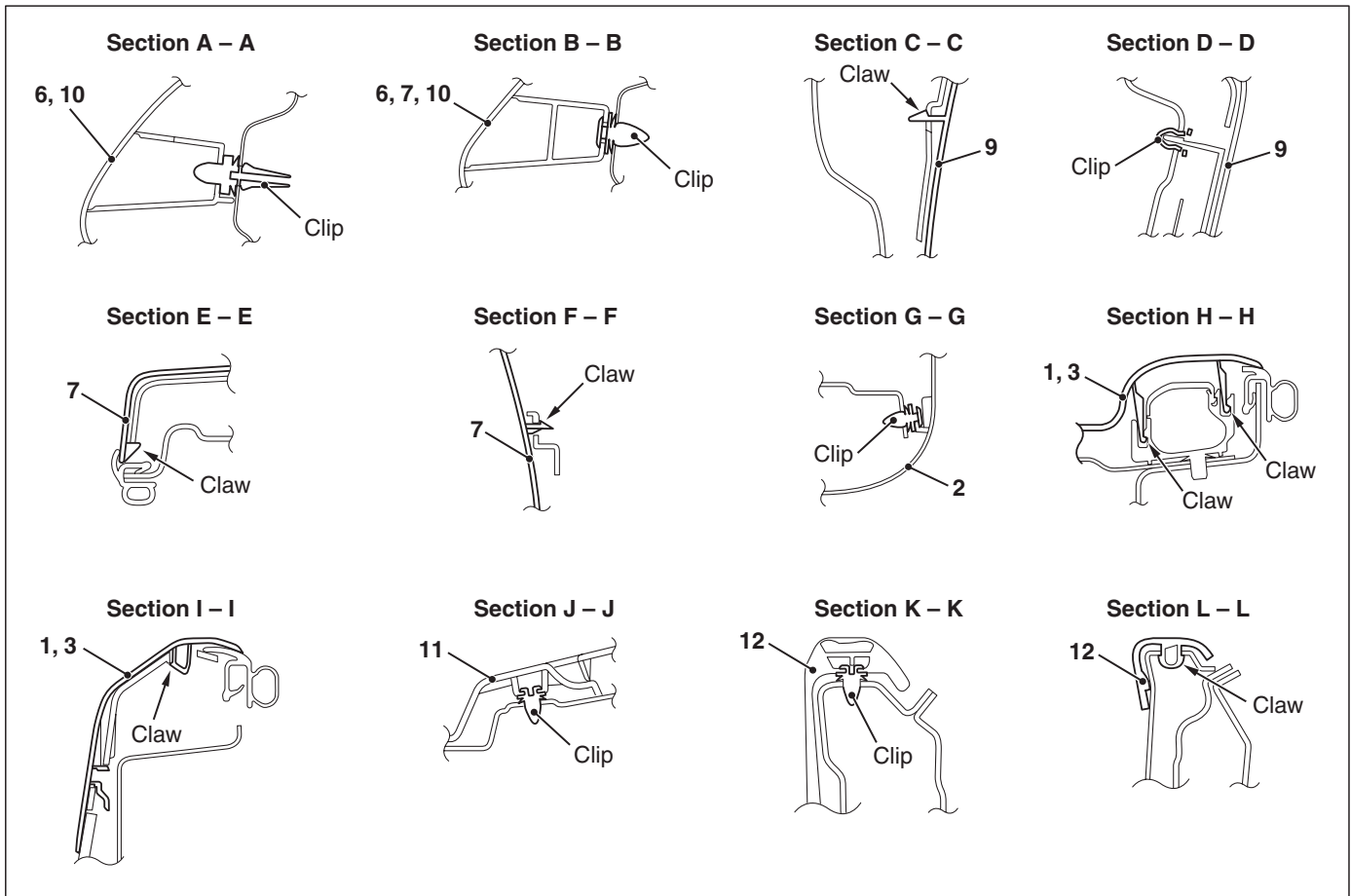
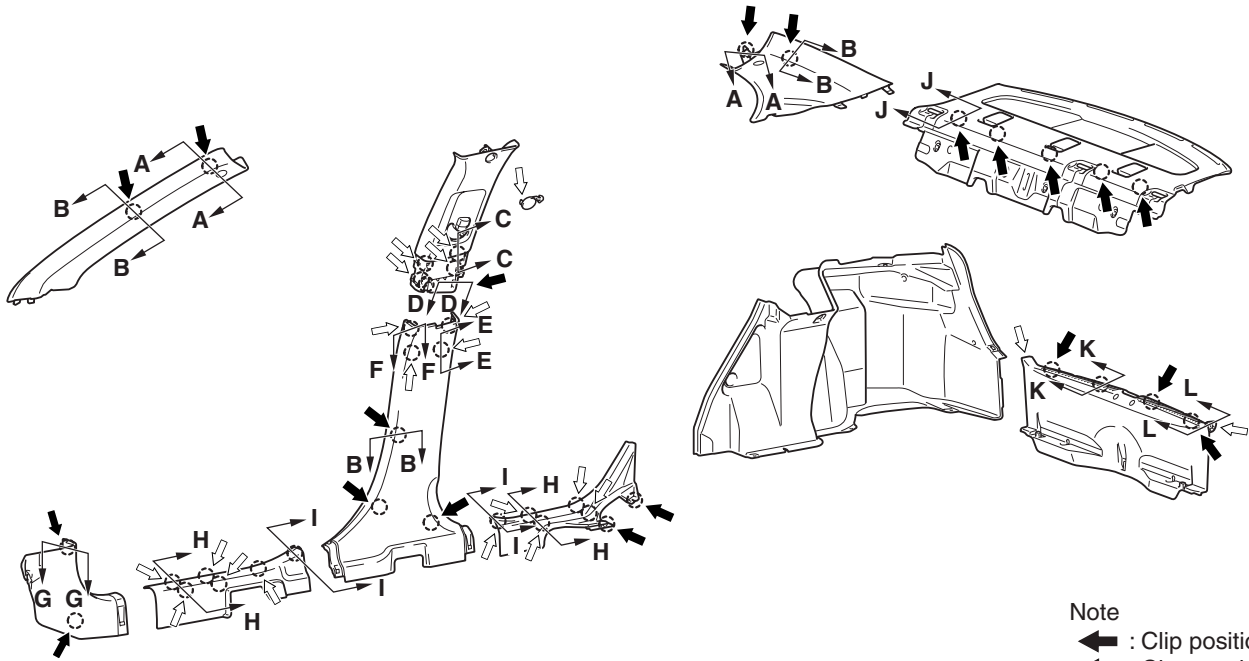
- Outer seat belt (Refer to [P.52A-28](#)).
- 9. Upper center pillar trim
- 10. Rear pillar trim
- Seat side back (Refer to [P.52A-23](#)).
- 11. Rear shelf trim
- 12. Rear end trim
- 13. Trunk side trim
- 14. Child restraint fitting

Required Special Tool:

- MB990784: Ornament Remover

<<A>>

CLIP POSITION



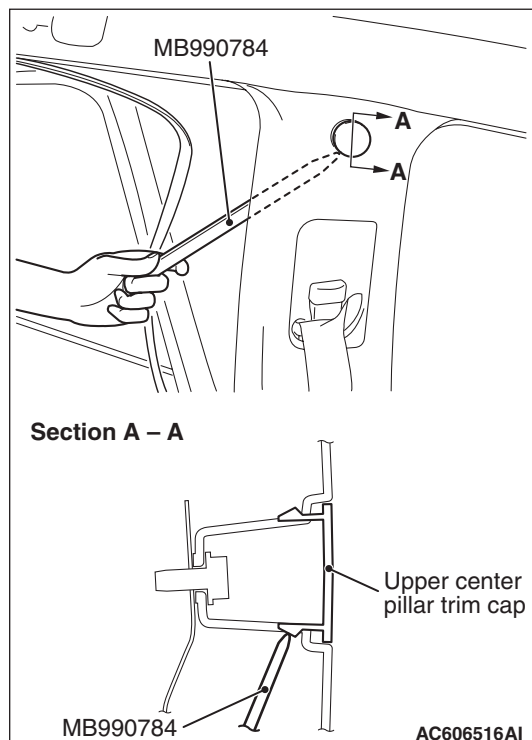
AC610026AB

NOTE: Each number in the illustration indicates a part number.

REMOVAL SERVICE POINT

<<A>> UPPER CENTER PILLAR TRIM CAP
REMOVAL

Remove the opening trim. Remove the upper center pillar trim cap by inserting the special tool MB990784 between the upper center pillar trim and body as shown in the illustration.

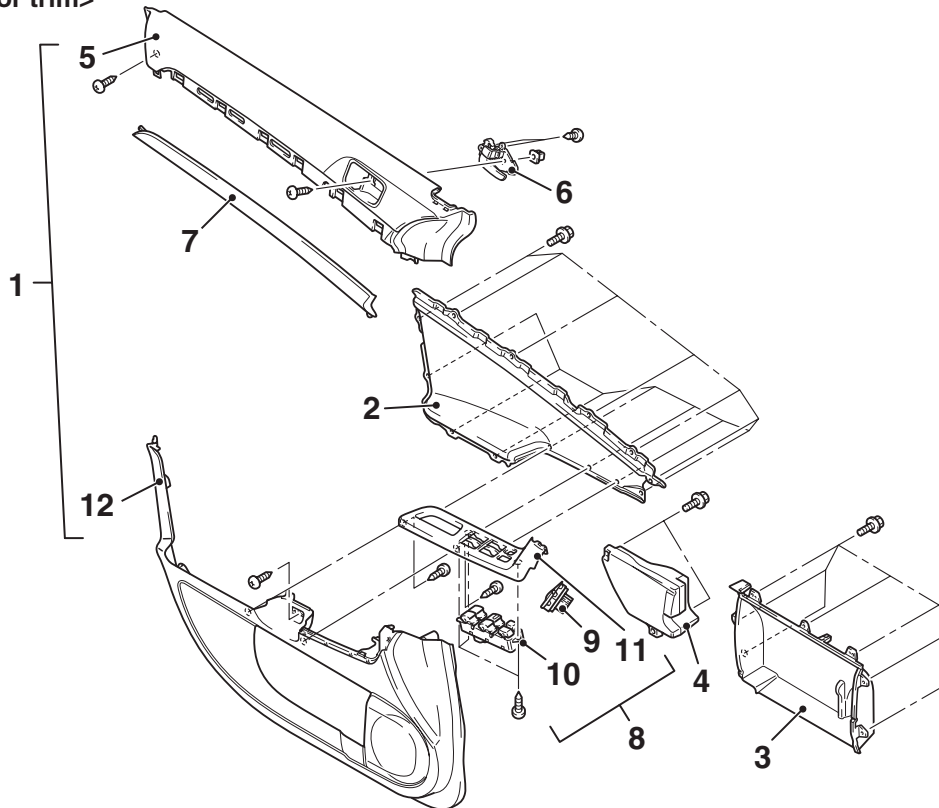


DOOR TRIM

REMOVAL AND INSTALLATION

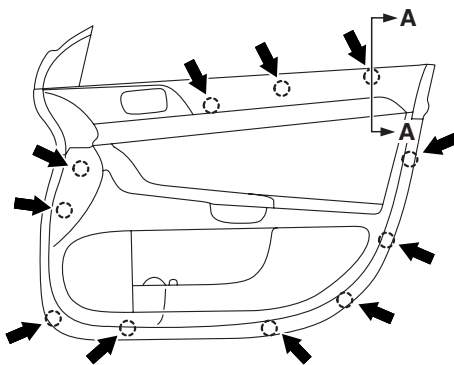
M1521006400752

<Front door trim>

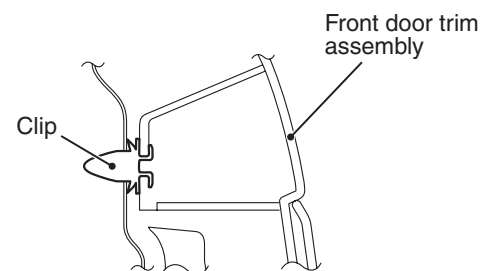


Note

➡ : Clip positions



Section A – A



AC611164AB

Removal steps

1. Front door trim assembly
2. Front door ornament
3. Front door pocket
4. Front lower pad energy absorption
5. Front door trim upper
6. Door inside handle
7. Decoration panel
8. Front door power window switch panel assembly
9. Remote control mirror switch

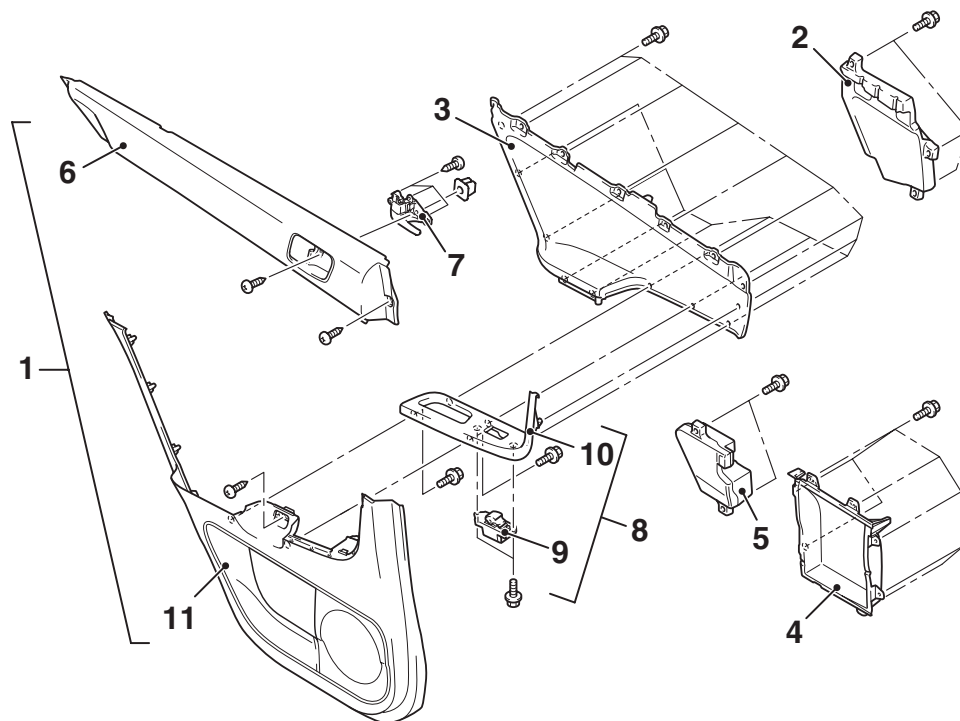
Removal steps (Continued)

10. Front door power window switch
11. Front power window switch panel
12. Front door trim lower

Required Special Tool:

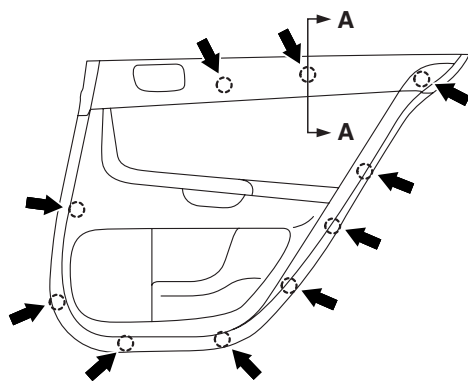
- MB990784: Ornament Remover

<Rear door trim>

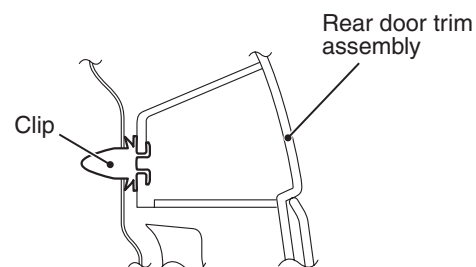


NOTE

➡ : Clip positions



Section A – A



AC611175AB

Removal steps

1. Rear door trim assembly
2. Rear upper pad energy absorption
3. Rear door ornament
4. Rear door pocket
5. Rear lower pad energy absorption
6. Rear door trim upper
7. Door inside handle

Removal steps (Continued)

8. Rear door power window switch panel assembly
9. Rear door power window switch
10. Rear power window switch panel
11. Rear door trim lower

Required Special Tool:

- MB990784: Ornament Remover

HEADLINING

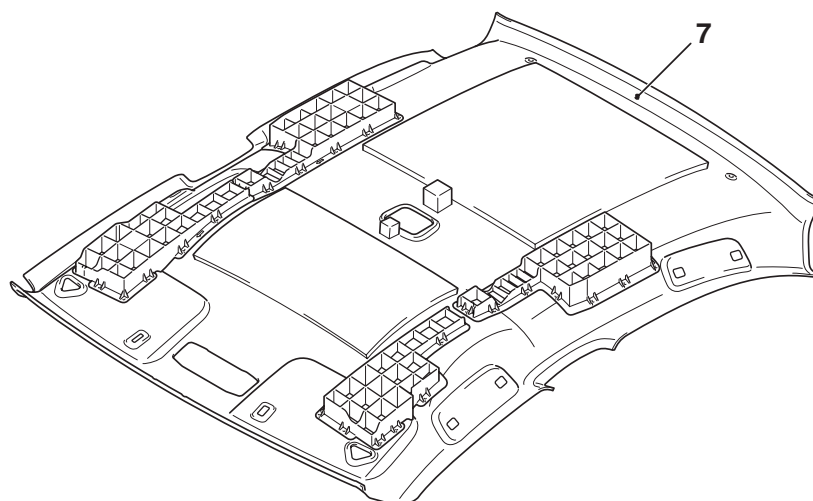
REMOVAL AND INSTALLATION

M1521001400973

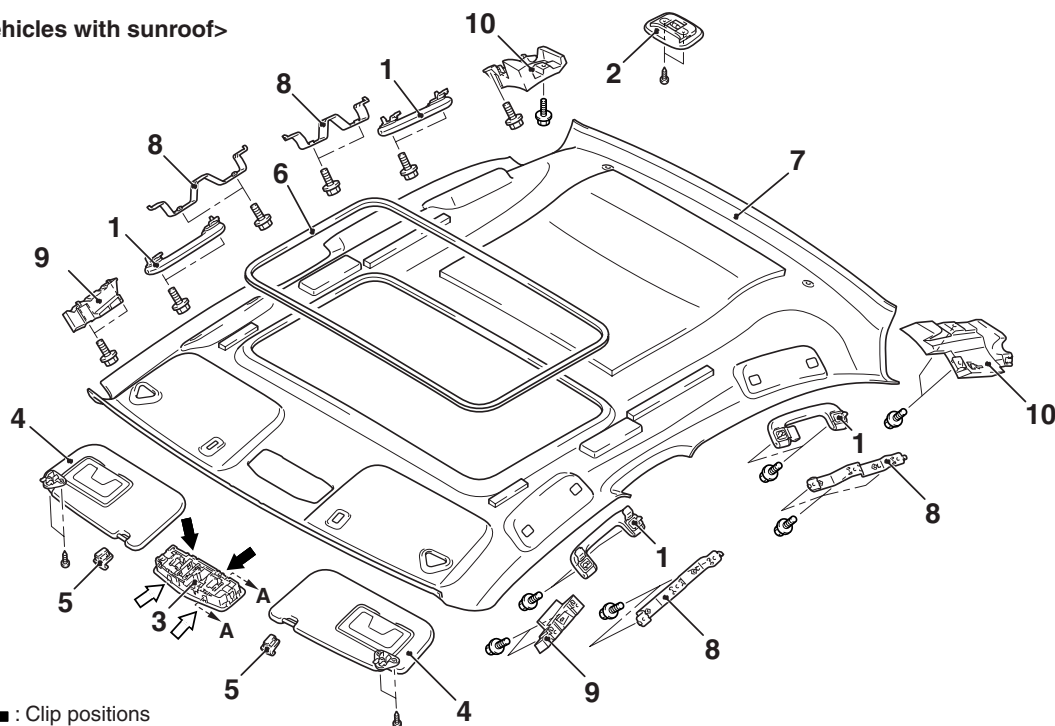
Pre-removal and Post-installation Operation

- Removal and Installation of Front Pillar Trim, Upper Center Pillar Trim, Rear Pillar Trim (Refer to P.52A-10).
- Removal and Installation of Instrument Under Cover (Refer to P.52A-6).

<Vehicles without sunroof>



<Vehicles with sunroof>

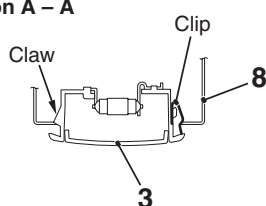


Note

(1) : Clip positions

(2) : Claw positions

Section A - A



AC609656AB

TSB Revision

Removal steps

1. Assist grip
2. Rear dome light assembly <Vehicles without sunroof>
3. Front dome light
4. Sun visor assembly
5. Sun visor holder
6. Sunroof lid inner weather strip rear <Vehicles with sunroof>
7. Headlining

Removal steps (Continued)

8. Assist grip bracket
9. Front side roof energy absorption box <Vehicle with sunroof>
10. Rear side roof energy absorption box <Vehicle with sunroof>

<<A>>

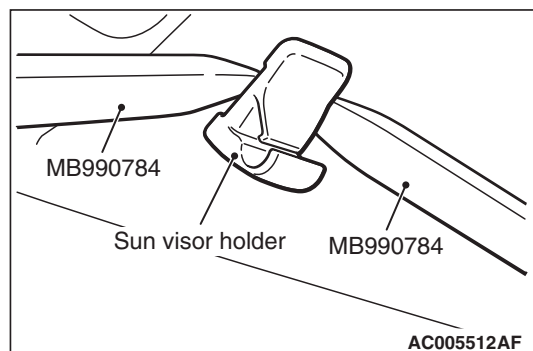
<>

Required Special Tool:

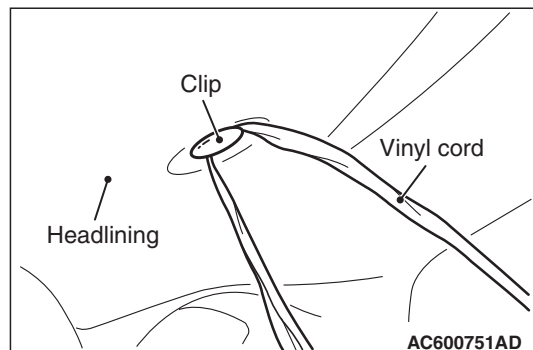
- MB990784: Ornament Remover

REMOVAL SERVICE POINTS**<<A>> SUN VISOR HOLDER REMOVAL**

Insert the special tool MB990784 into side claws of the sun visor holder through the both sides of the sun visor holder to remove the hinges.

**<> HEADLINING ASSEMBLY REMOVAL**

To remove the clip, insert a vinyl cord into a clearance between the clip and the headlining, and pass it around the clip. Then, pull out the clip downwards while pulling the vinyl cord.

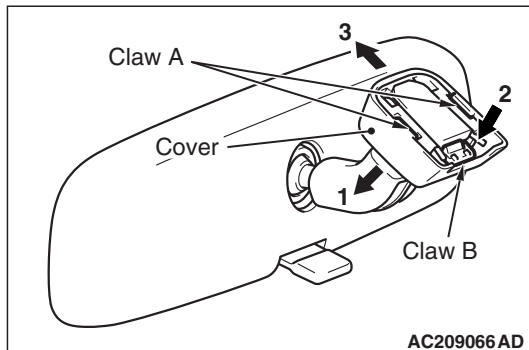


INSIDE REAR VIEW MIRROR

M1521002600561

REMOVAL SERVICE POINT

1. Disengage claw A and lower the cover in the arrow 1 direction.
2. Push claw B in the arrow 2 direction to unlock, and pull out the mirror in the arrow 3 direction.



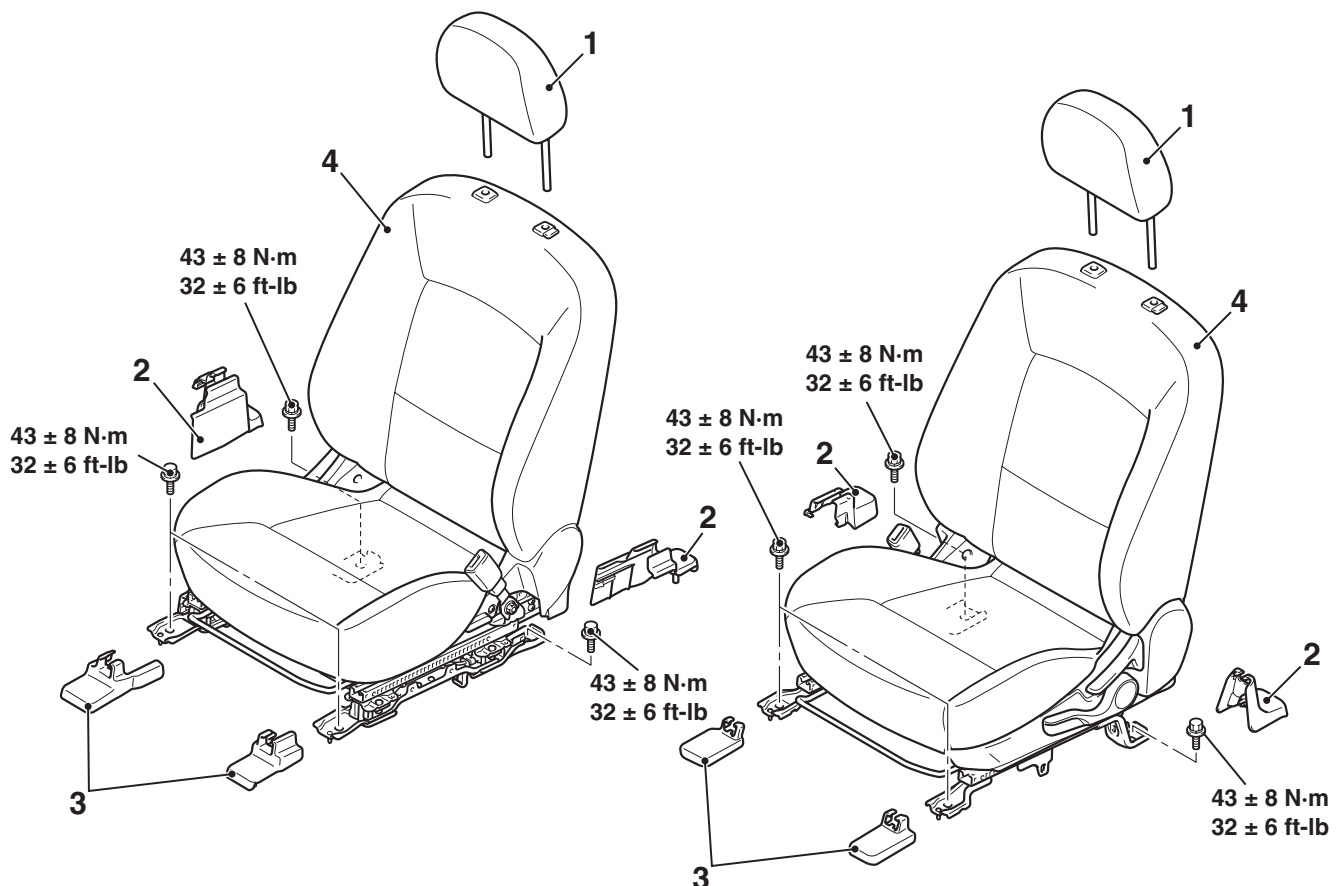
FRONT SEAT ASSEMBLY

REMOVAL AND INSTALLATION

M1522001301165

⚠ WARNING

Before removing the front seat assembly, refer to **GROUP 52B, Service Precautions P.52B-24** and **Air Bag Module and Clock Spring P.52B-367**.



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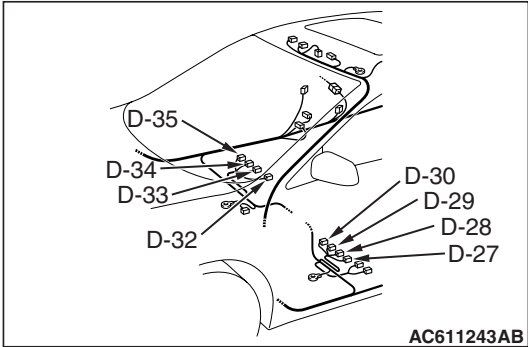
1. Head restraint
- Front seat assembly removal steps
2. Front seat anchor cover rear
3. Front seat anchor cover front

- <<A>>
- Front seat assembly removal steps (Continued)
- >>A<<
- Harness connector
4. Front seat assembly

REMOVAL SERVICE POINT

<<A>> WIRING HARNESS CONNECTOR DISCONNECTION

Disconnect the following wiring harness connectors:

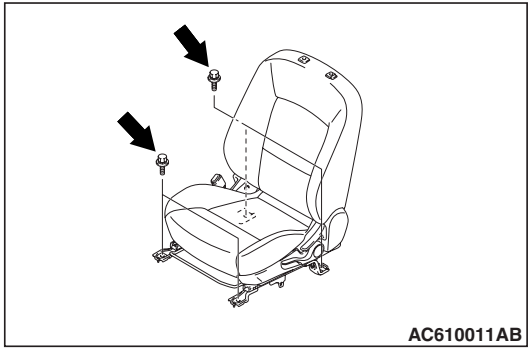


Connector number	Connector name
D-27 (4 – black)	Heated seat connector (driver's seat) <Vehicle with heated seat>
D-28 (2 – gray)	Seat slide sensor connector (driver's seat)
D-29 (4 – black)	Seat belt switch connector (driver's seat)
D-30 (2 – yellow)	Side air bag module (squib) connector (driver's seat) <Vehicles with side air bag>
D-32 (2 – yellow)	Side air bag module (squib) connector (front passenger's seat) <Vehicles with side air bag>
D-33 (4 – black)	Seat belt switch connector (front passenger's seat)
D-34 (4 – black)	Heated seat connector (passenger's seat) <Vehicle with heated seat>
D-35 (6)	Occupant classification system connector (passenger's seat)

INSTALLATION SERVICE POINT

>>A<< FRONT SEAT ASSEMBLY INSTALLATION

1. Temporarily tighten the bolts in all mounting locations shown in the illustration with no load applied to the front seat cushion and check the operation of the seat slide.
2. Tighten the bolts in all mounting locations to the specified torque.

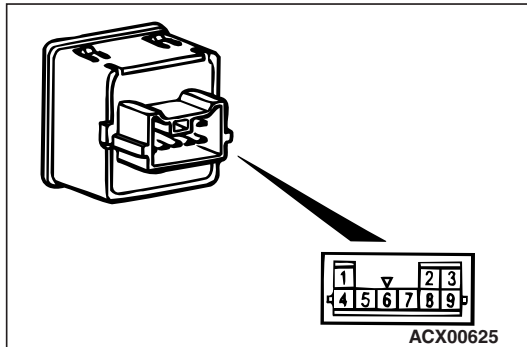


INSPECTION

M1522005500287

CONTINUITY TEST OF HEATED SEAT SWITCH

1. Check for continuity between terminals.



Item	Switch position	Tester connection	Specified condition
Driver's seat side	HI	1 -5, 3 -8	Continuity exists (2Ω or less)
	OFF	1 -5, 3 -5, 5 -8	Open circuit
	LO	3 -5	Continuity exists (2Ω or less)
Front passenger's seat side	HI	4 -5, 8 -9	Continuity exists (2Ω or less)
	OFF	4 -5, 5 -8, 5 -9	Open circuit
	LO	5 -9	Continuity exists (2Ω or less)

2. Check that the indicator is lighted at HI or LO when battery voltage is supplied to terminal 5 and terminal 8 is grounded.
3. Check that indicator is lighted when battery voltage is supplied to terminals 2 and terminal 6.

SEAT CUSHION HEATER CHECK

Measure the resistance between terminals.

Standard value: At room temperature 20 °C (68 °F)

Between terminals 1 and terminal 2

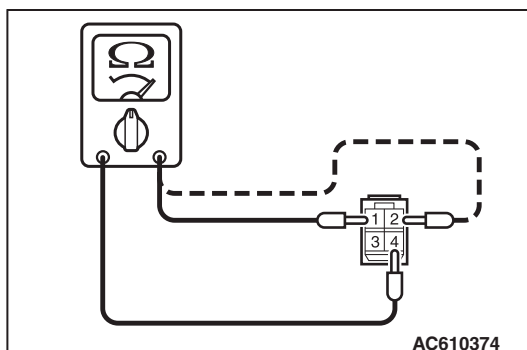
Standard type: Approximately 3.82 ±4.66 ohms

Spots type: Approximately 4.47 ±5.48 ohms

Between terminals 1 and terminal 4

Standard type: 8.90 ±10.88 ohms

Spots type: 8.79 ±10.75 ohms



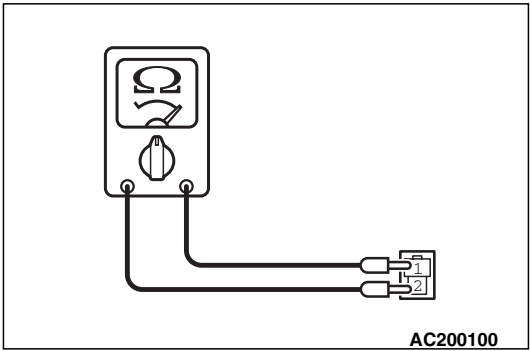
SEATBACK HEATER CHECK

Measure the resistance between terminals.

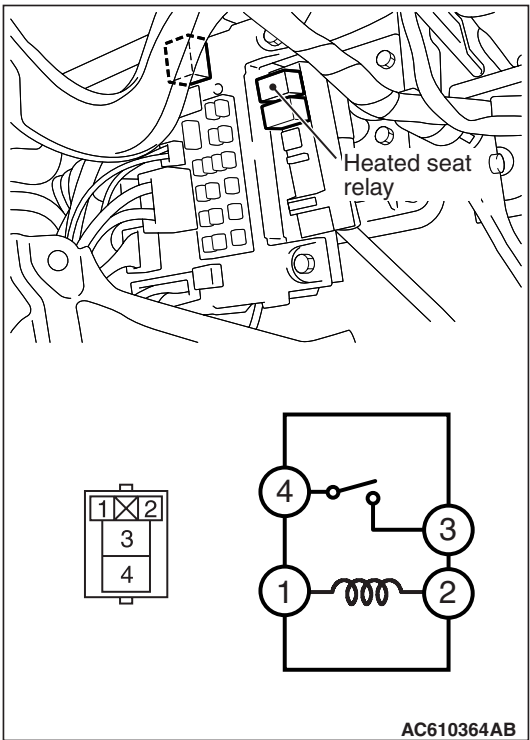
Standard value: At room temperature 20 °C (68 °F)

Standard type: 4.86 ±5.94 ohms

Spots type: 4.06 ±4.96 ohms



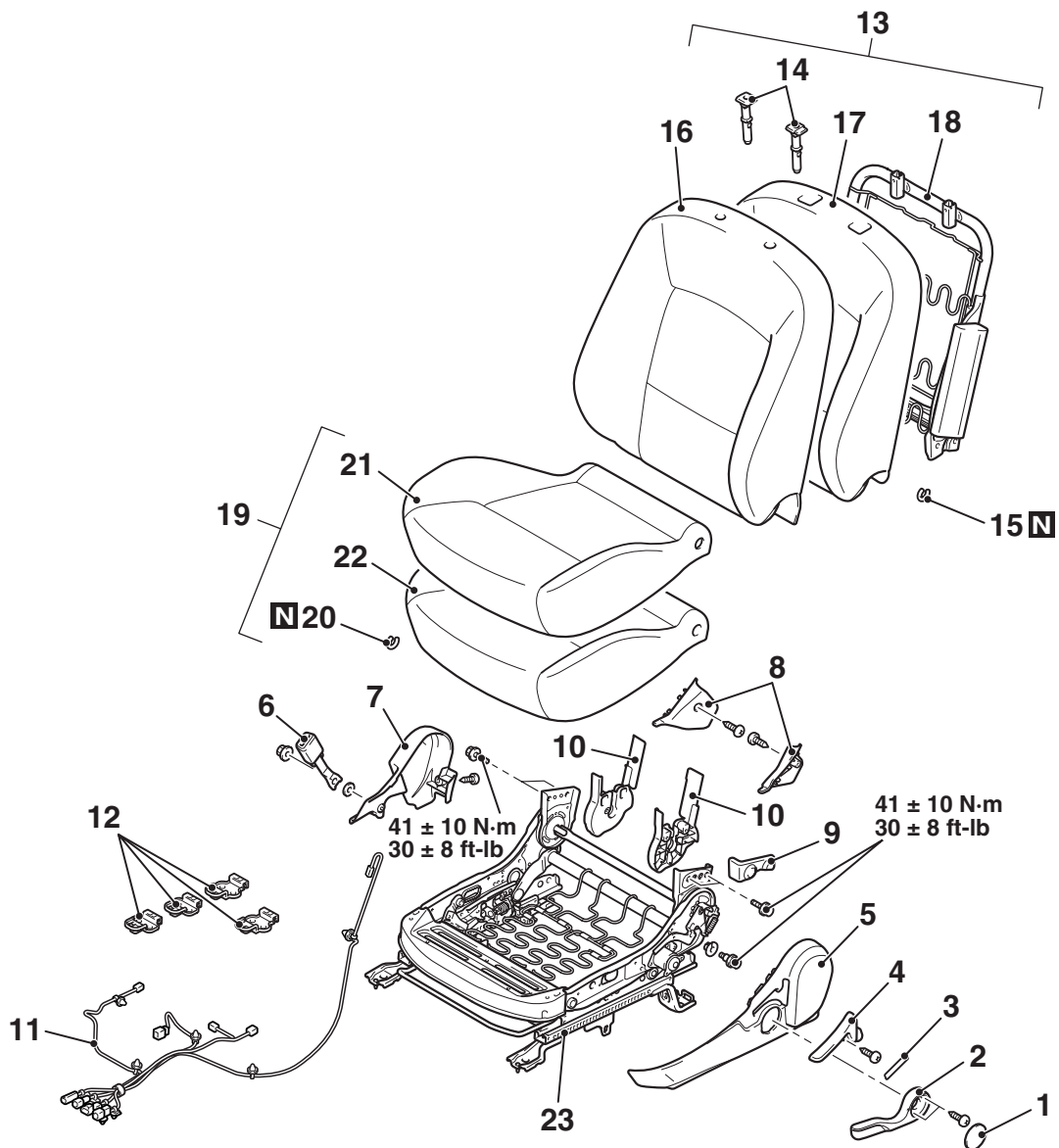
HEATED SEAT RELAY CONTINUITY CHECK



Battery voltage	Tester connection	Specified condition
Not applied	3 –4	Open circuit
- Connect terminal 1 to the positive battery terminal - Connect terminal 2 to the negative battery terminal	3 –4	Continuity exists (2Ω or less)

DISASSEMBLY AND ASSEMBLY

M1522001501211



AC609289AB

<<A>>

Disassembly steps

1. Height adjuster lever cap
2. Height adjuster lever
3. Reclining adjuster cap
4. Reclining adjuster lever
5. Side shield cover
6. Inner seat belt
7. Hinge cover
8. Side shield inner cover
9. Reclining adjuster upper cover
10. Reclining adjuster cover
11. Harness
12. Hook
13. Front seatback pad and frame assembly
14. Head restraint guide

<>

Disassembly steps (Continued)

15. Hog ling
16. Front seatback cover
17. Front seatback pad
18. Front seatback frame
19. Front seat cushion assembly
20. Hog ling
21. Front seat cushion cover
22. Front seat cushion pad
23. Front seat cushion frame

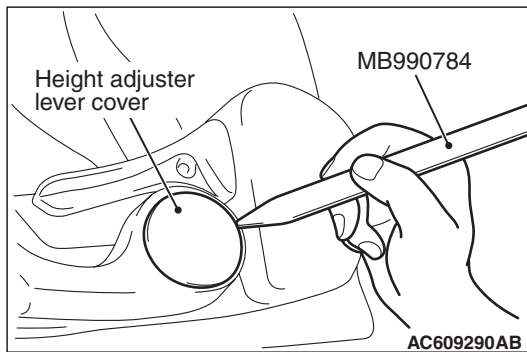
Required Special Tool:

- MB990784: Ornament Remover

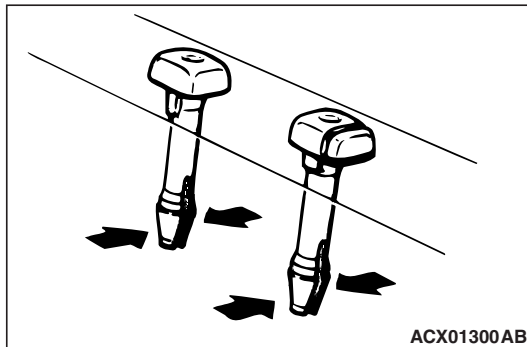
REMOVAL SERVICE POINT

<<A>> HEIGHT ADJUSTER CAP REMOVAL

Use special tool MB990784 as shown to remove the height adjuster lever cover.



<> HEAD RESTRAINT GUIDE REMOVAL

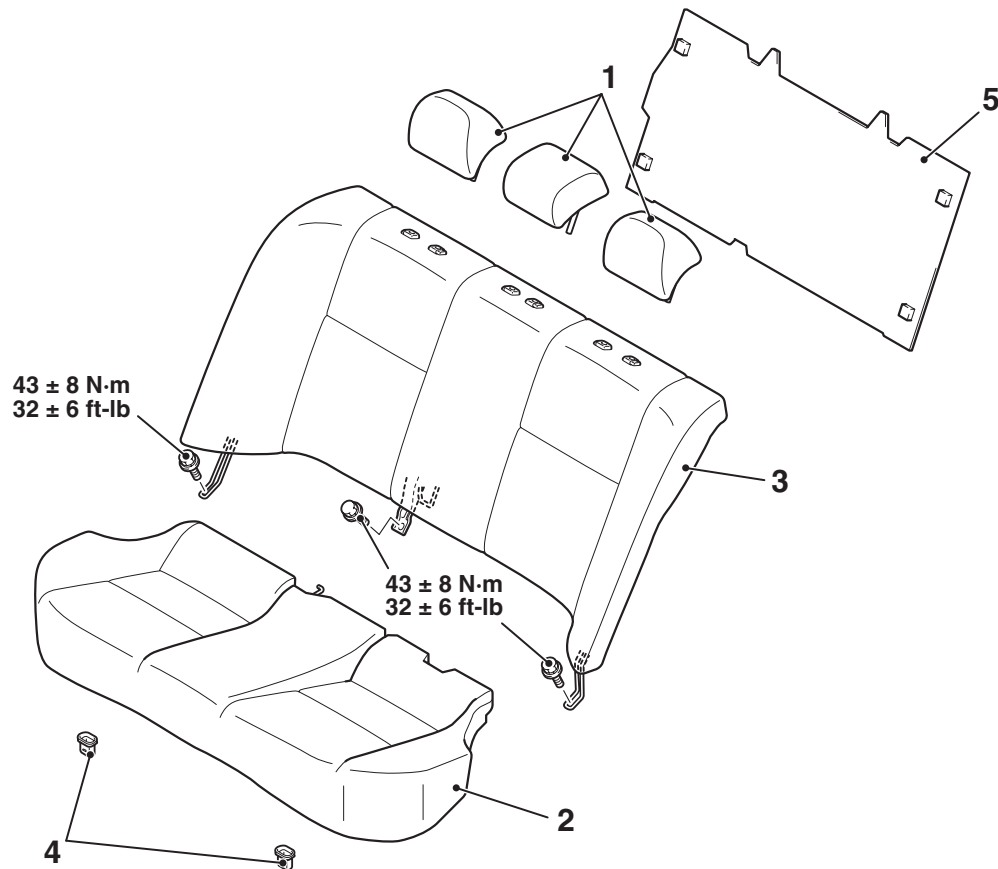


REAR SEAT ASSEMBLY

REMOVAL AND INSTALLATION

M1522001800639

<Bench seat>



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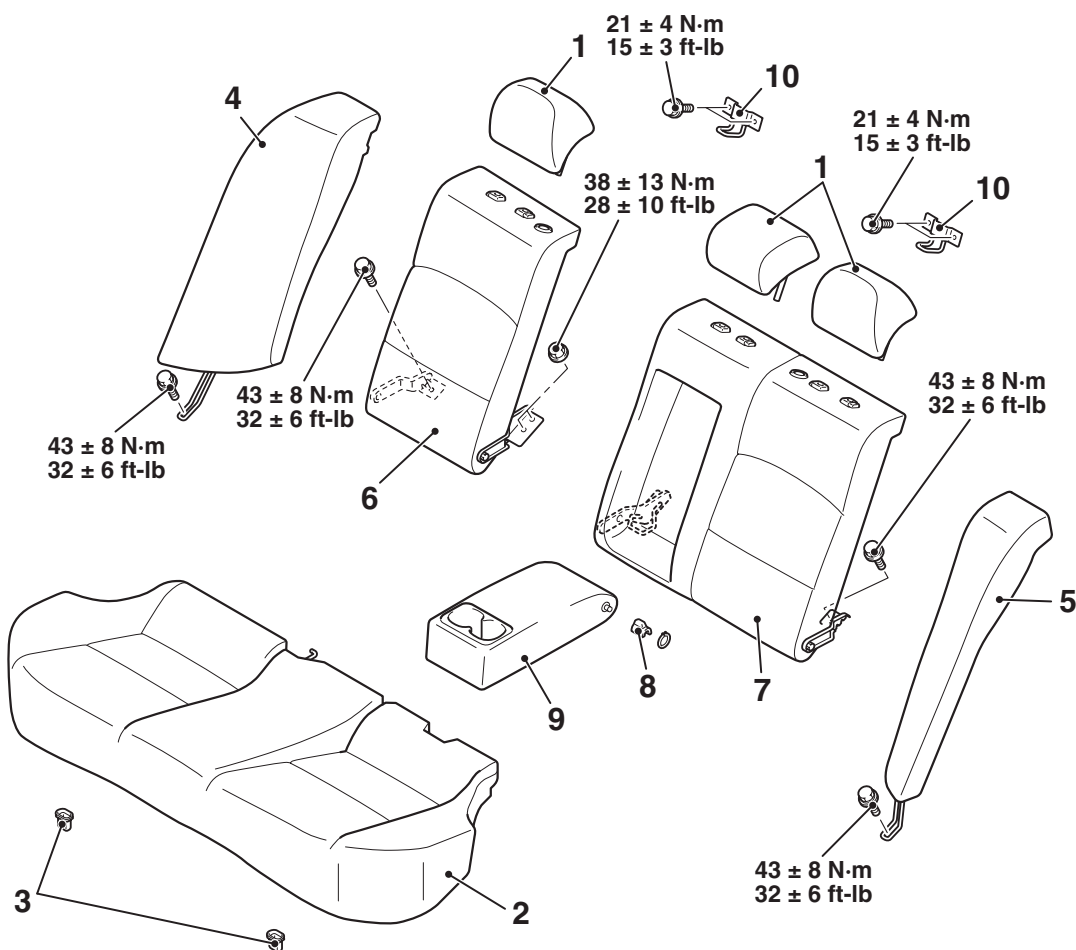
Removal steps

- 1. Rear seat head restraint
- >>C<< 2. Rear seat cushion assembly
- >>A<< 3. Rear seatback assembly

Removal steps (Continued)

- 4. Rear seat hook
- 5. Luggage room partition board

<Sprit seat>



AC609245AB

Removal steps

- 1. Rear seat head restraint
- >>C<< 2. Rear seat cushion assembly
- 3. Rear seat hook
- >>B<< 4. Rear seatback side assembly (RH)
- >>B<< 5. Rear seatback side assembly (LH)
- >>A<< 6. Rear seatback assembly (RH)

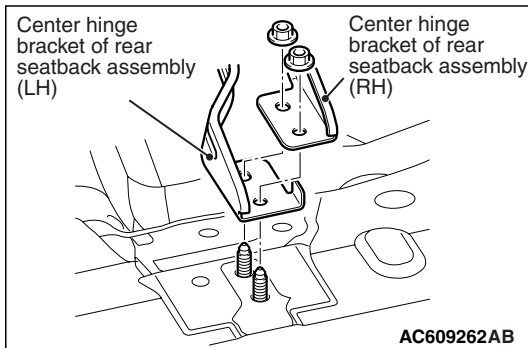
Removal steps (Continued)

- >>A<< 7. Rear seatback assembly (LH)
- 8. Spacer
- 9. Snap ring
- 10. Rear seat armrest
- 11. Rear seat striker

INSTALLATION SERVICE POINTS

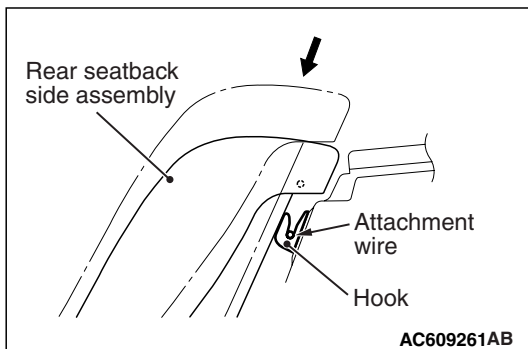
>>A<< INSTALLATION OF REAR SEATBACK ASSEMBLY (LH)/REAR SEATBACK ASSEMBLY (RH)

Place the center hinge bracket of the rear seatback assembly (LH) on top of the center hinge bracket of the rear seatback assembly (RH) for installation.



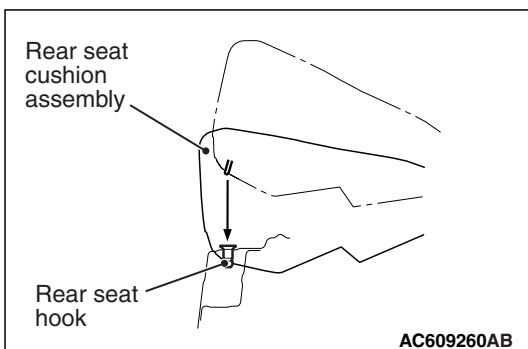
>>B<< INSTALLATION OF REAR SEATBACK SIDE ASSEMBLY (LH)/REAR SEATBACK SIDE ASSEMBLY (RH)

Press the rear seatback side assembly in the direction shown in the illustration and fit the attachment wire into the hook securely to install the rear seatback side assembly.



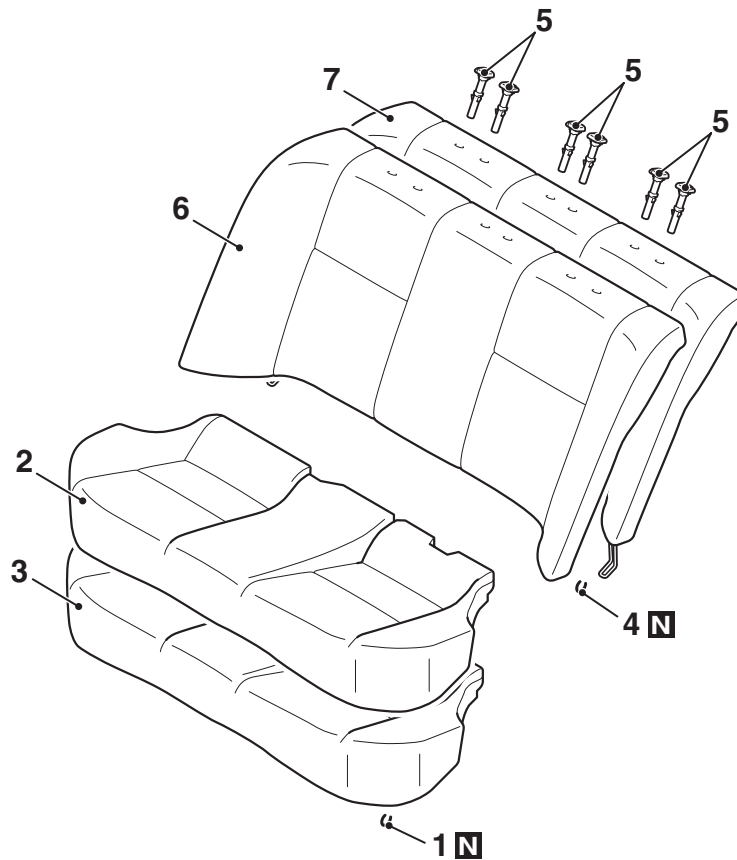
>>C<< INSTALLATION OF REAR SEAT CUSHION ASSEMBLY

Fit the rear seat cushion into the rear seat hook securely.



DISASSEMBLY AND ASSEMBLY

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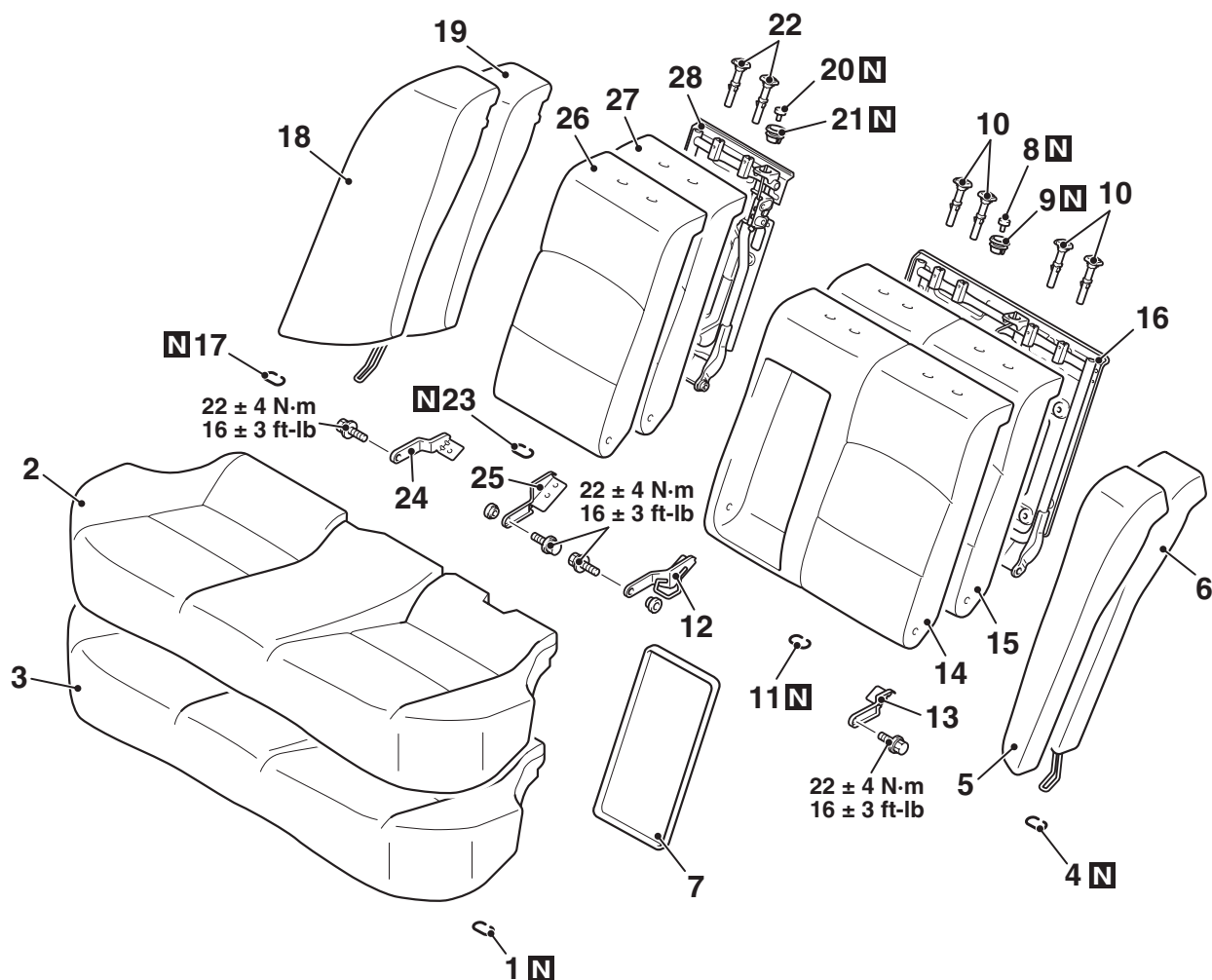
**Disassembly steps**

1. Hog ring
2. Rear seat cushion cover
3. Rear seat cushion pad
4. Hog ring

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Disassembly steps (Continued)

5. Rear seat head restraint guide
6. Rear seatback cover
7. Rear seatback pad



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Disassembly steps

1. Hog ring
2. Rear seat cushion cover
3. Rear seat cushion pad
4. Hog ring
5. Rear seatback side cover (LH)
6. Rear seatback side pad (LH)
7. Rear seatback armrest board
8. Rear seat folding knob garnish
9. Rear seat folding knob
10. Rear seat head restraint guide
11. Hog ring
12. Center hinge bracket (LH)
13. Side hinge bracket (LH)
14. Rear seatback cover (LH)

Disassembly steps (Continued)

15. Rear seatback pad (LH)
16. Rear seatback frame (LH)
17. Hog ring
18. Rear seatback side cover (RH)
19. Rear seatback side pad (RH)
20. Rear seat folding knob garnish
21. Rear seat folding knob
22. Rear seat head restraint guide
23. Hog ring
24. Side hinge bracket (RH)
25. Center hinge bracket (RH)
26. Rear seatback cover (RH)
27. Rear seatback pad (RH)
28. Rear seatback frame (RH)

FRONT SEAT BELT

REMOVAL AND INSTALLATION

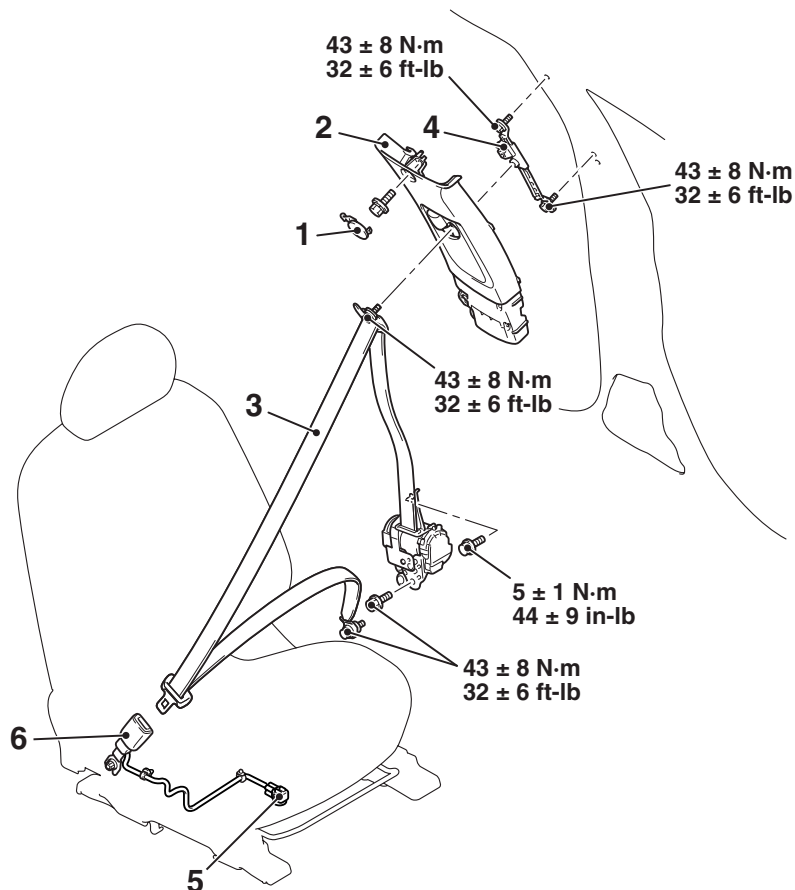
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CAUTION

SRS: Before removing and installing the seat belts with pre-tensioner, refer to GROUP 52B –SRS Service Precautions [P.52B-24](#) and Seat Belt with Pre-tensioner [P.52B-393](#).

Pre-removal and Post-installation Operation

- Turn the ignition key to the LOOK (OFF) position.
- Disconnect the negative battery terminal.



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<<A>>

Outer seat belt removal steps

1. Center pillar trim cup
 - Lower center pillar trim (Refer to [P.52A-10](#)).
2. Upper center pillar trim (Refer to [P.52A-10](#)).
3. Outer seat belt (Refer to GROUP 52B, Seat Belt with Pre-tensioner [P.52B-389](#)).
4. Adjustable seat belt anchor

Inner seat belt removal steps

5. Harness connector
 - Shield cover (Refer to [P.52A-21](#)).
6. Inner seat belt

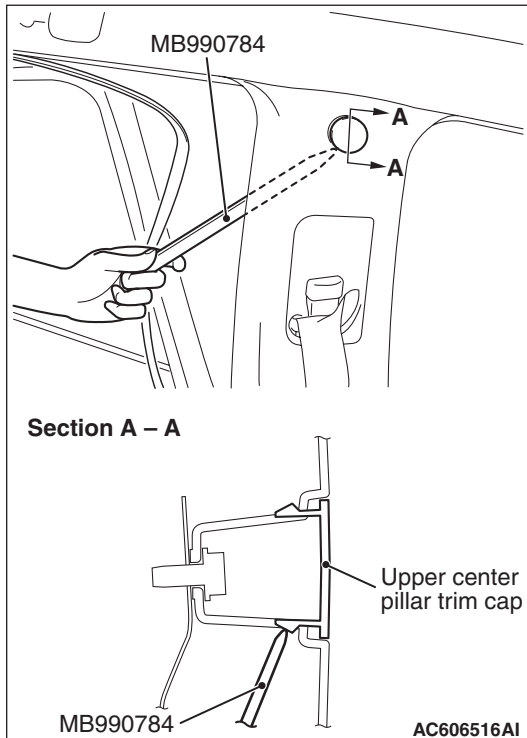
Required Special Tool:

- MB990784: Ornament Remover

REMOVAL SERVICE POINT

<<A>> UPPER CENTER PILLAR TRIM CAP REMOVAL

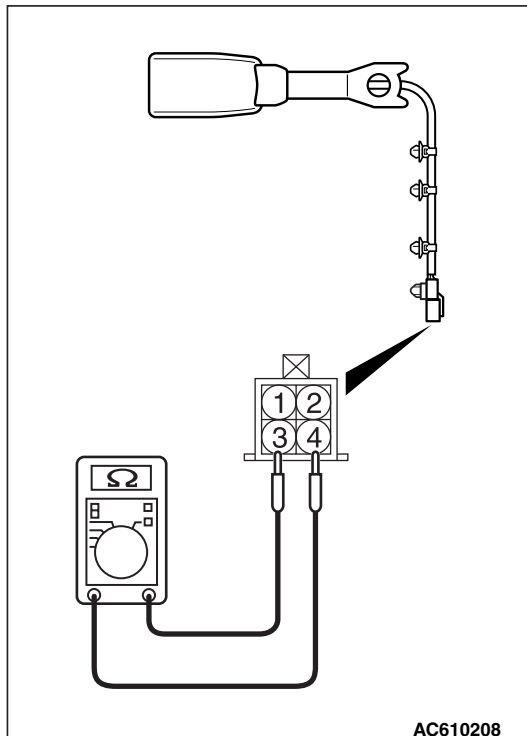
Remove the opening trim. Remove the upper center pillar trim cap by inserting the special tool MB990784 between the upper center pillar trim and body as shown in the illustration.



INSPECTION

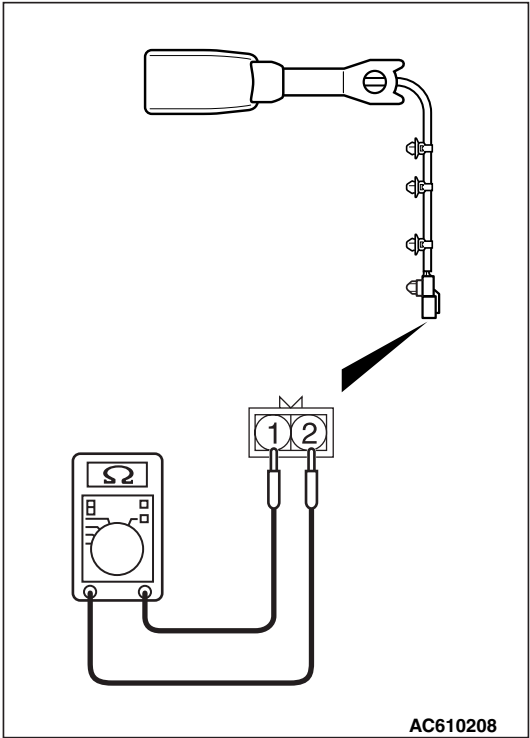
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SEAT BELT BUCKLE SWITCH CONTINUITY CHECK (DRIVER'S SIDE)



Item	Tester connection	Specified condition
Fastened seat belt	1 - 2	Open circuit
Unfastened seat belt	1 - 2	Continuity exists (2Ω or less)
Fastened seat belt	3 - 4	Open circuit
Unfastened seat belt	3 - 4	Continuity exists (2Ω or less)

SEAT BELT BUCKLE SWITCH CONTINUITY
CHECK (PASSENGER’S SIDE)



Item	Tester connection	Specified condition
Fastened seat belt	1 –2	Open circuit
Unfastened seat belt	1 –2	Continuity exists (2Ω or less)

NOTES